

## REPLACEMENT ABSTRACT

[Abstract:]

[[Fig. 2]]

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A projection objective 1 for short wavelengths, in particular for wavelengths  $\lambda < 157$  nm is provided with a number of mirrors [M1, M2, M3, M4, M5 and M6] that are arranged positioned precisely in relation to an optical axis 5. The mirrors [M1, M2, M3, M4, M5 and M6] have multilayer coatings. At least two different mirror materials are provided which differ in the rise in the coefficient of thermal expansion as a function of temperature in the region of the zero crossing of the coefficients of thermal expansion, in particular in the sign of the size.